



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 301 AND VILLAGE DRIVE IN PRINCE GEORGE'S COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A FOURTH LEG TO THE INTERSECTION. US 301 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE DOUBLE LEFT TURN PHASE FOR SOUTHBOUND US 301. THE INTERSECTION WILL NOW OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE SINGLE LEFT TURN PHASE FOR NORTHBOUND AND MAINTAIN THE DOUBLE LEFT TURN ON SOUTHBOUND US 301, THE SIDE STREETS WILL OPERATE WITH SPLIT PHASING.

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. BRIAN YOUNG
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 513-7318

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 513-7304

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 513-7358

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
CHIEF OF SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
CHIEF OF
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
CHIEF OF SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
3 CY	TEST PIT EXCAVATION
80 LF	24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
34 EA	12 INCH LED SIGNAL HEAD SECTION
6 EA	8 INCH LED SIGNAL HEAD SECTION
13 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	21 FT. MAST ARM POLE AND 50 FT. MAST ARM
1 EA	21 FT. MAST ARM POLE AND 70 FT. MAST ARM
1 EA	27 FT. MAST ARM POLE AND 70 FT. MAST ARM
3 EA	ELECTRICAL HANDHOLE
1 EA	ADJUST EXISTING HANDHOLE TO GRADE
30 LF	2 IN. SCHEDULE 80 RIGID ELECTRICAL CONDUIT - TRENCHED
180 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
100 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
1 EA	VIDEO DETECTION CAMERA WITH 200 FT. LEAD-IN CABLE
1 EA	VIDEO DETECTION CAMERA WITH 300 FT. LEAD-IN CABLE
80 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE
100 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
1620 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
470 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
3 EA	3/4 IN. X 10 FT. GROUND ROD
1 EA	D-3(1) (VAR X 16") SINGLE FACE SIGN - MAST ARM MOUNT
2 EA	R3-SL (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-SR (30" X 36") SIGN - MAST ARM MOUNT
2 EA	R3-6L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R10-11B (24" X 24") - MAST ARM MOUNT
1 EA	20 FT. STREET LIGHTING ARM
1 EA	250 WATT HPS LUMINAIRE AND LAMP WITH PHOTOCCELL
1 EA	20 AMP, 120V/SINGLE PHASE, CIRCUIT BREAKER
2 EA	SHIELD ASSEMBLY (48" X 75") SIGN - POLE MOUNT
2 EA	SHIELD ASSEMBLY (30" X 51") SIGN - POLE MOUNT

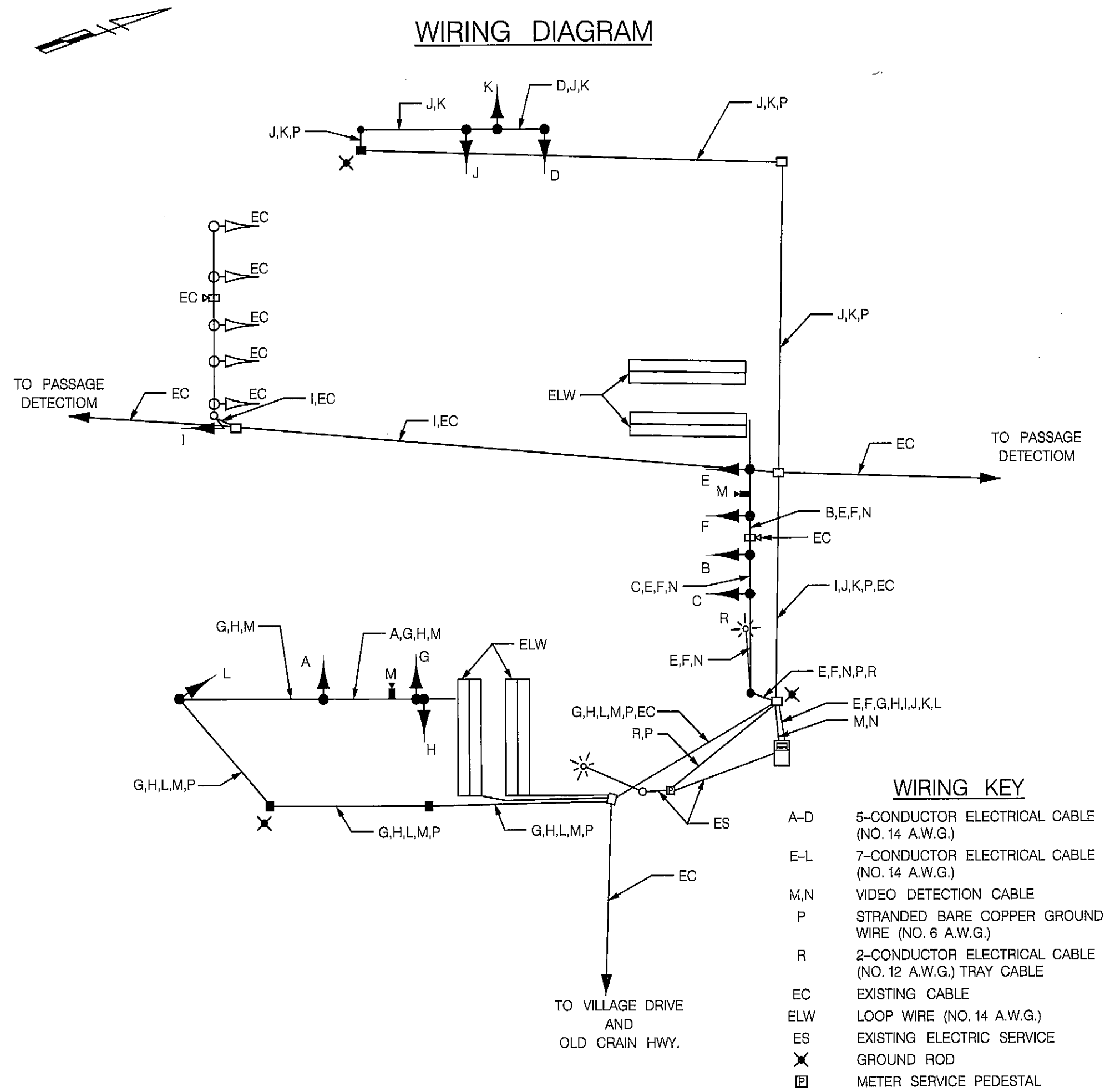
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PHASE 1 & 5	←G→	←G→	R	R	R	←G→	←G→	←G→	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	←G→	←G→	G	G	G	←R→	←R→	←R→	R	R	R	R	R	R	R	R	R
PHASE 1 & 6	←G→	←G→	G	G	G	←R→	←R→	←R→	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	←Y→	←Y→	G	G	G	←R→	←R→	←R→	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	←R→	←R→	R	R	R	←G→	←G→	←G→	G	G	G	R	R	R	R	R	R
2 & 5 CHANGE	←R→	←R→	R	R	R	←Y→	←Y→	←Y→	G	G	G	R	R	R	R	R	R
PHASE 2 & 6	←R→	←R→	G	G	G	←R→	←R→	←R→	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	←R→	←R→	Y	Y	Y	←R→	←R→	←R→	Y	Y	Y	R	R	R	R	R	R
PHASE 3	←R→	←R→	R	R	R	←R→	←R→	←R→	R	R	R	R	R	R	←G→	←G→	G
3 CHANGE	←R→	←R→	R	R	R	←R→	←R→	←R→	R	R	R	R	R	R	Y	Y	Y
PHASE 4	←R→	←R→	R	R	R	←R→	←R→	←R→	R	R	R	←G→	←G→	G	R	R	R
4 CHANGE	←R→	←R→	R	R	R	←R→	←R→	←R→	R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	←FLR→	←FLR→	FLY	FLY	FLY	←FLR→	←FLR→	←FLR→	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite B
Gambrills, MD 21054

(410) 923-7101
FAX: (410) 923-6473
TRAFFIC@TRAFFIC-CONCEPTS.COM

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN US 301 AND VILLAGE DRIVE WEST

SCALE NONE DATE 3-27-09 CONTRACT NO. BW996M82

DESIGNED BY T. ZAYDEL COUNTY PRINCE GEORGE'S
DRAWN BY T. ZAYDEL LOGMILE 16030116.07
CHECKED BY K. SCHMID T.I.M.S. NO. I-930
F.A.P. NO. NA TOD NO.

DRAWING NO. TS-1521B GI

SHEET NO. 3 OF 3